

STIC-ILL

TP 248. P77. P763

From: Ponnaluri, Padmashri
Sent: Wednesday, November 27, 2002 2:47 PM
To: STIC-ILL
Subject: A request for a copy of reference

Importance: High

Please send me a copy of the following reference:

TI A protein complementation assay for detection of protein-protein interactions in vivo
AU Pelletier, Joelle N.; Michnick, Stephen W.
CS Departement de biochimie, Universite de Montreal, Montreal, QC, H3T 1J4, Can.
SO Protein Engineering (1997), 10(Suppl.), 89
CODEN: PRENE9; ISSN: 0269-2139

Thanks

Ponnaluri, P (Shri)
Patent Examiner
Art Unit 1639
703-305-3884
CM1, 3D07.

(FILE 'HOME' ENTERED AT 14:16:34 ON 27 NOV 2002)

FILE 'MEDLINE, SCISEARCH, BIOSIS, CAPLUS' ENTERED AT 14:16:56 ON 27 NOV 2002

L1 3445 S ENZYME (2A) FRAGMENT#
L2 2 S REASSOCIATE(P)L1
L3 10504 S ENZYME# (5A) FRAGMENT#
L4 30 S L3 AND REASSOCIAT?
L5 3 S L4 AND LIBRAR?
L6 1085 S L3 AND ASSOCIAT?
L7 829 S L3 (P) ASSOCIAT?
L8 38 S L7 AND LIBRAR?
L9 21 DUPLICATE REMOVE L8 (17 DUPLICATES REMOVED)
L10 4 S L7 AND (LEUCINE ZIPPER)
L11 12589 S LEUCINE ZIPPER
L12 74 S L11 (10A) LIBRAR?
L13 9 S L12 (P) ASSOCIAT?
L14 21005 S DHFR OR (DIHYDROFOLATE REDUCTASE)
L15 26 S L14 AND L11
L16 9 S L15 AND LIBRAR?
E MICHNICK STEPHEN WILLIAM WATSON/AU
L17 42 S E1-E3
L18 14 S L17 AND LIBRAR?
L19 12 S L18 AND L14
L20 11 DUPLICATE REMOVE L19 (1 DUPLICATE REMOVED)

FILE 'STNGUIDE' ENTERED AT 14:40:03 ON 27 NOV 2002

FILE 'MEDLINE, CAPLUS' ENTERED AT 14:41:38 ON 27 NOV 2002

E PELLETIER JOELLE N/AU
L21 18 S E3-E4
L22 9 S L21 AND L14
L23 8 S L22 AND LIBRAR?
E ARNDT KATJA M/AU
L24 14 S E2-E3
L25 4 S L24 AND L14
L26 4 S L25 AND LIBRAR?
E PLUCKTHUN ANDREAS/AU
L27 298 S E2-E3
L28 8 S L27 AND L14
L29 7 S L28 AND LIBRAR?

L23 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:400690 CAPLUS
 DN 127:133022
 TI A protein complementation assay for detection of protein-protein interactions in vivo
 AU Pelletier, Joelle N.; Michnick, Stephen W.
 CS Departement de biochimie, Universite de Montreal, Montreal, QC, H3T 1J4, Can.
 SO Protein Engineering (1997), 10(Suppl.), 89
 CODEN: PRENE9; ISSN: 0269-2139
 PB Oxford University Press
 DT Journal
 LA English
 CC 9-16 (Biochemical Methods)
 AB The development of a protein complementary assay based of **dihydrofolate reductase** activity by complementation of defined fragments of the murine enzyme in E. coli. is reported. The direct assay described here requires no addnl. endogenous factors, is used for detecting specific protein-protein interactions and can be conveniently extended to screening cDNA **libraries** for protein interactions.
 ST protein complementation assay
 IT Proteins, general, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (a protein complementation assay for detection of protein-protein interactions in vivo)
 IT 9002-03-3, **Dihydrofolate reductase**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (a protein complementation assay for detection of protein-protein interactions in vivo)
 AU Pelletier, Joelle N.; Michnick, Stephen W.
 AB The development of a protein complementary assay based of **dihydrofolate reductase** activity by complementation of defined fragments of the murine enzyme in E. coli. is reported. The direct assay described here. . . requires no addnl. endogenous factors, is used for detecting specific protein-protein interactions and can be conveniently extended to screening cDNA **libraries** for protein interactions.
 IT 9002-03-3, **Dihydrofolate reductase**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (a protein complementation assay for detection of protein-protein interactions in vivo)

L9 ANSWER 5 OF 21 MEDLINE DUPLICATE 3
 AN 1999343373 MEDLINE
 DN 99343373 PubMed ID: 10404162
 TI An in vivo **library-versus-library** selection of optimized protein-protein interactions.
 CM Comment in: Nat Biotechnol. 1999 Jul;17(7):639-40
 AU Pelletier J N; Arndt K M; Pluckthun A; Michnick S W
 CS Departement de biochimie, Universite de Montreal, Quebec, Canada.
 SO NATURE BIOTECHNOLOGY, (1999 Jul) 17 (7) 683-90.
 Journal code: 9604648. ISSN: 1087-0156.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199909
 ED Entered STN: 19991012
 Last Updated on STN: 19991012
 Entered Medline: 19990929
 AB We describe a rapid and efficient in vivo **library-versus-library** screening strategy for identifying optimally interacting pairs of heterodimerizing polypeptides. Two leucine zipper **libraries**, semi-randomized at the positions adjacent to the hydrophobic core, were genetically fused to either one of two designed **fragments** of the **enzyme** murine dihydrofolate reductase (mDHFR), and cotransformed into Escherichia coli. Interaction between the **library** polypeptides reconstituted enzymatic activity of mDHFR, allowing bacterial growth. Analysis of the resulting colonies revealed important biases in the zipper sequences relative to the original **libraries**, which are consistent with selection for stable, heterodimerizing pairs. Using more weakly **associating** mDHFR fragments, we increased the stringency of selection. We enriched the best-performing leucine zipper pairs by multiple passaging of the pooled, selected colonies in liquid culture, as the best pairs allowed for better bacterial propagation. This competitive growth allowed small differences among the pairs to be amplified, and different sequence positions were enriched at different rates. We applied these selection processes to a **library-versus-library** sample of 2.0×10^6 combinations and selected a novel leucine zipper pair that may be appropriate for use in further in vivo heterodimerization strategies.
 CT Check Tags: Animal; Support, Non-U.S. Gov't
 Dimerization
 Escherichia coli: CH, chemistry
 *Escherichia coli: EN, enzymology
 Escherichia coli: GD, growth & development
 *Leucine Zippers
 Mice
 Mutation
 *Peptide Fragments: CH, chemistry
 Peptide Fragments: ME, metabolism
 *Peptide Library
 *Protein Folding
 Protein Structure, Secondary
 Recombinant Fusion Proteins: CH, chemistry
 Recombinant Fusion Proteins: ME, metabolism
 Tetrahydrofolate Dehydrogenase: CH, chemistry
 Tetrahydrofolate Dehydrogenase: GE, genetics
 *Tetrahydrofolate Dehydrogenase: ME, metabolism
 CN 0 (Peptide Fragments); 0 (Peptide **Library**); 0 (Recombinant Fusion Proteins); EC 1.5.1.3 (Tetrahydrofolate Dehydrogenase)

L16 ANSWER 1 OF 9 MEDLINE
 AN 1999343373 MEDLINE
 DN 99343373 PubMed ID: 10404162
 TI An in vivo **library-versus-library** selection of optimized protein-protein interactions.
 CM Comment in: Nat Biotechnol. 1999 Jul;17(7):639-40
 AU Pelletier J N; Arndt K M; Pluckthun A; Michnick S W
 CS Departement de biochimie, Universite de Montreal, Quebec, Canada.
 SO NATURE BIOTECHNOLOGY, (1999 Jul) 17 (7) 683-90.
 Journal code: 9604648. ISSN: 1087-0156.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199909
 ED Entered STN: 19991012
 Last Updated on STN: 19991012
 Entered Medline: 19990929

L16 ANSWER 2 OF 9 SCISEARCH COPYRIGHT 2002 ISI (R)
 AN 2000:95610 SCISEARCH
 GA The Genuine Article (R) Number: 278VD
 TI A heterodimeric coiled-coil peptide pair selected in vivo from a designed **library-versus-library** ensemble
 AU Arndt K M; Pelletier J N; Muller K M; Alber T; Michnick S W; Pluckthun A (Reprint)
 CS UNIV ZURICH, INST BIOCHEM, WINTERTHURERSTR 190, CH-8057 ZURICH, SWITZERLAND (Reprint); UNIV ZURICH, INST BIOCHEM, CH-8057 ZURICH, SWITZERLAND; UNIV MONTREAL, DEPT BIOCHIM, MONTREAL, PQ H3T 1J4, CANADA; UNIV CALIF BERKELEY, DEPT MOL & CELL BIOL, BERKELEY, CA 94720
 CYA SWITZERLAND; CANADA; USA
 SO JOURNAL OF MOLECULAR BIOLOGY, (21 JAN 2000) Vol. 295, No. 3, pp. 627-639. Publisher: ACADEMIC PRESS LTD, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND. ISSN: 0022-2836.
 DT Article; Journal
 FS LIFE
 LA English
 REC Reference Count: 50
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 3 OF 9 SCISEARCH COPYRIGHT 2002 ISI (R)
 AN 1999:542436 SCISEARCH
 GA The Genuine Article (R) Number: 213WU
 TI An in vivo **library-versus-library** selection of optimized protein-protein interactions
 AU Pelletier J N; Arndt K M; Pluckthun A; Michnick S W (Reprint)
 CS UNIV MONTREAL, DEPT BIOCHIM, 2900 EDOUARD MONTPETIT, MONTREAL, PQ H3C 3J7, CANADA (Reprint); UNIV MONTREAL, DEPT BIOCHIM, MONTREAL, PQ H3C 3J7, CANADA; UNIV ZURICH, INST BIOCHEM, CH-8057 ZURICH, SWITZERLAND
 CYA CANADA; SWITZERLAND
 SO NATURE BIOTECHNOLOGY, (JUL 1999) Vol. 17, No. 7, pp. 683-690. Publisher: NATURE AMERICA INC, 345 PARK AVE SOUTH, NEW YORK, NY 10010-1707. ISSN: 1087-0156.
 DT Article; Journal
 FS LIFE; AGRI
 LA English
 REC Reference Count: 29
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2002:479392 BIOSIS
 DN PREV200200479392

TI Protein fragment complementation assays for the detection of biological or drug interactions.
 AU Michnick, Stephen William Watson (1); Pelletier, Joelle Nina; Remy, Ingrid
 CS (1) Westmount Canada
 ASSIGNEE: Odyssey Pharmaceuticals, Inc., San Ramon, CA, USA
 PI US 6428951 August 06, 2002
 SO Official Gazette of the United States Patent and Trademark Office Patents, (Aug. 6, 2002) Vol. 1261, No. 1, pp. No Pagination.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
 ISSN: 0098-1133.
 DT Patent
 LA English

L16 ANSWER 5 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2000:113771 BIOSIS
 DN PREV200000113771
 TI A heterodimeric coiled-coil peptide pair selected in vivo from a designed library-versus-library ensemble.
 AU Arndt, Katja M.; Pelletier, Joelle N.; Muller, Kristian M.; Alber, Tom; Michnick, Stephen W.; Pluckthun, Andreas (1)
 CS (1) Biochemisches Institut, Universitat Zurich, Winterthurerstr. 190, CH-8057, Zurich Switzerland
 SO Journal of Molecular Biology, (Jan. 21, 2000) Vol. 295, No. 3, pp. 627-639.
 ISSN: 0022-2836.
 DT Article
 LA English
 SL English

L16 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:703735 CAPLUS
 DN 135:269629
 TI Protein fragment complementation assays for the detection of biological or drug interactions
 IN Michnick, Stephen William Watson; Remy, Ingrid
 PA Odyssey Pharmaceuticals Inc., USA
 SO U.S., 41 pp., Cont.-in-part of U.S.6,290,964.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | US 6294330 | B1 | 20010925 | US 1998-124850 | 19980730 |
| | CA 2196496 | AA | 19980731 | CA 1997-2196496 | 19970131 |
| | US 6270964 | B1 | 20010807 | US 1998-17412 | 19980202 |
| | WO 2000007038 | A2 | 20000210 | WO 1999-CA702 | 19990730 |
| | WO 2000007038 | A3 | 20000504 | | |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | EP 1027608 | A2 | 20000816 | EP 1999-936199 | 19990730 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| | US 6428951 | B1 | 20020806 | US 2000-499464 | 20000207 |
| PRAI | CA 1997-2196496 | A | 19970131 | | |
| | US 1998-17412 | A2 | 19980202 | | |
| | CA 1998-2244349 | A | 19980730 | | |

US 1998-124850 A 19980730
WO 1999-CA702 W 19990730

L16 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 2001:12657 CAPLUS

DN 134:83084

TI In vivo **library-versus-library** screening for selection
of optimized protein-protein interactions

IN Michnick, Stephen W.; Pelletier, Joelle Nina; Pluckthun, Andreas; Arndt,
Katja M.

PA Odyssey Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2001000866 | A1 | 20010104 | WO 2000-US17436 | 20000626 |
| | W: AU, CA, JP | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| | EP 1198586 | A1 | 20020424 | EP 2000-946853 | 20000626 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY | | | | |
| PRAI | US 1999-141210P | P | 19990626 | | |
| | US 2000-603885 | A | 20000626 | | |
| | WO 2000-US17436 | W | 20000626 | | |

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 1999:453241 CAPLUS

DN 131:225770

TI An in vivo **library-versus-library** selection of
optimized protein-protein interactions

AU Pelletier, Joelle N.; Arndt, Katja M.; Pluckthun, Andreas; Michnick,
Stephen W.

CS Departement de biochimie, Universite de Montreal, Montreal, QC, Can.

SO Nature Biotechnology (1999), 17(7), 683-690

CODEN: NABIF9; ISSN: 1087-0156

PB Nature America

DT Journal

LA English

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2002 ACS

AN 1998:543225 CAPLUS

DN 129:146647

TI Protein fragment complementation assays to detect biomolecular
interactions

IN Michnick, Stephen William Watson; Pelletier, Joelle Nina; Remy, Ingrid

PA Universite De Montreal, Can.

SO PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 9834120 | A1 | 19980806 | WO 1998-CA68 | 19980202 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, | | | | |

KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
 UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
 FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
 GA, GN, ML, MR, NE, SN, TD, TG

CA 2196496 AA 19980731 CA 1997-2196496 19970131

AU 9858505 A1 19980825 AU 1998-58505 19980202

EP 966685 A1 19991229 EP 1998-901905 19980202

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI

JP 2002508832 T2 20020319 JP 1998-532410 19980202

PRAI CA 1997-2196496 A 19970131

WO 1998-CA68 W 19980202

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 1 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2002:479392 BIOSIS
 DN PREV200200479392
 TI Protein fragment complementation assays for the detection of biological or drug interactions.
 AU **Michnick, Stephen William Watson (1)**; Pelletier, Joelle Nina; Remy, Ingrid
 CS (1) Westmount Canada
 ASSIGNEE: Odyssey Pharmaceuticals, Inc., San Ramon, CA, USA
 PI US 6428951 August 06, 2002
 SO Official Gazette of the United States Patent and Trademark Office Patents, (Aug. 6, 2002) Vol. 1261, No. 1, pp. No Pagination.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
 ISSN: 0098-1133.
 DT Patent
 LA English

L20 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:276281 CAPLUS
 DN 136:291364
 TI Protein-protein interaction studies and biochem. pathway mapping by survival-selection and fluorescence **dihydrofolate reductase**-protein fragment complementation assays
 IN **Michnick, Stephen W.**; Remy, Ingrid
 PA Odyssey Pharmaceuticals, Inc., USA
 SO PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2002029417 | A2 | 20020411 | WO 2001-US31183 | 20011004 |
| | W: AU, CA, JP | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR | | | | |
| | US 2002064769 | A1 | 20020530 | US 2001-968864 | 20011003 |
| | AU 2002011444 | A5 | 20020415 | AU 2002-11444 | 20011004 |
| PRAI | US 2000-237690P | P | 20001005 | | |
| | US 2001-968864 | A | 20011003 | | |
| | WO 2001-US31183 | W | 20011004 | | |

L20 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:75456 CAPLUS
 DN 137:212993
 TI Protein interactions and **library** screening with protein fragment complementation strategies
 AU Remy, Ingrid; Pelletier, Joelle N.; Galarneau, Andre; **Michnick, Stephen W.**
 CS Department de Biochimie Universite de Montreal, Montreal, QC, H3C 3J7, Can.
 SO Protein-Protein Interactions (2002), 449-475. Editor(s): Golemis, Erica. Publisher: Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y. CODEN: 69CFYI; ISBN: 0-87969-628-1
 DT Conference; General Review
 LA English
 RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:12657 CAPLUS
 DN 134:83084
 TI In vivo **library-versus-library** screening for selection

of optimized protein-protein interactions

IN **Michnick, Stephen W.**; Pelletier, Joelle Nina; Pluckthun, Andreas; Arndt, Katja M.

PA Odyssey Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 2001000866 | A1 | 20010104 | WO 2000-US17436 | 20000626 |
| | W: AU, CA, JP | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| | EP 1198586 | A1 | 20020424 | EP 2000-946853 | 20000626 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY | | | | |
| PRAI | US 1999-141210P | P | 19990626 | | |
| | US 2000-603885 | A | 20000626 | | |
| | WO 2000-US17436 | W | 20000626 | | |

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2001:703735 CAPLUS

DN 135:269629

TI Protein fragment complementation assays for the detection of biological or drug interactions

IN **Michnick, Stephen William Watson**; Remy, Ingrid

PA Odyssey Pharmaceuticals Inc., USA

SO U.S., 41 pp., Cont.-in-part of U.S.6,290,964.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | US 6294330 | B1 | 20010925 | US 1998-124850 | 19980730 |
| | CA 2196496 | AA | 19980731 | CA 1997-2196496 | 19970131 |
| | US 6270964 | B1 | 20010807 | US 1998-17412 | 19980202 |
| | WO 2000007038 | A2 | 20000210 | WO 1999-CA702 | 19990730 |
| | WO 2000007038 | A3 | 20000504 | | |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | EP 1027608 | A2 | 20000816 | EP 1999-936199 | 19990730 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| | US 6428951 | B1 | 20020806 | US 2000-499464 | 20000207 |
| PRAI | CA 1997-2196496 | A | 19970131 | | |
| | US 1998-17412 | A2 | 19980202 | | |
| | CA 1998-2244349 | A | 19980730 | | |
| | US 1998-124850 | A | 19980730 | | |
| | WO 1999-CA702 | W | 19990730 | | |

L20 ANSWER 6 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2001:439630 BIOSIS

DN PREV200100439630
TI Exploring protein interactions by interaction-induced folding of proteins from complementary peptide fragments.
AU **Michnick, Stephen W. (1)**
CS (1) Departement de Biochimie, Universite de Montreal, Succursale Centre-Ville, Montreal, PQ, H3C 3J7: stephen.michnick@umontreal.ca Canada
SO Current Opinion in Structural Biology, (August, 2001) Vol. 11, No. 4, pp. 472-477. print.
ISSN: 0959-440X.
DT General Review
LA English
SL English

L20 ANSWER 7 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
1

AN 2000:113771 BIOSIS
DN PREV200000113771
TI A heterodimeric coiled-coil peptide pair selected in vivo from a designed **library-versus-library** ensemble.
AU Arndt, Katja M.; Pelletier, Joelle N.; Muller, Kristian M.; Alber, Tom; **Michnick, Stephen W.**; Pluckthun, Andreas (1)
CS (1) Biochemisches Institut, Universitat Zurich, Winterthurerstr. 190, CH-8057, Zurich Switzerland
SO Journal of Molecular Biology, (Jan. 21, 2000) Vol. 295, No. 3, pp. 627-639.
ISSN: 0022-2836.
DT Article
LA English
SL English

L20 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2000:850029 CAPLUS
DN 134:143505
TI Detection of protein-protein interactions by protein fragment complementation studies
AU **Michnick, Stephen W.**; Remy, Ingrid; Campbell-Valois, Francois-X.; Vallee-Belisle, Alexis; Pelletier, Joelle N.
CS Departement de Biochimie, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SO Methods in Enzymology (2000), 328(Applications of Chimeric Genes and Hybrid Proteins, Pt. C), 208-230
CODEN: MENZAU; ISSN: 0076-6879
PB Academic Press
DT Journal
LA English

L20 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1999:453241 CAPLUS
DN 131:225770
TI An in vivo **library-versus-library** selection of optimized protein-protein interactions
AU Pelletier, Joelle N.; Arndt, Katja M.; Pluckthun, Andreas; **Michnick, Stephen W.**
CS Departement de biochimie, Universite de Montreal, Montreal, QC, Can.
SO Nature Biotechnology (1999), 17(7), 683-690
CODEN: NABIF9; ISSN: 1087-0156
PB Nature America
DT Journal
LA English

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L20 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1998:543225 CAPLUS

DN 129:146647
 TI Protein fragment complementation assays to detect biomolecular interactions
 IN Michnick, Stephen William Watson; Pelletier, Joelle Nina; Remy, Ingrid
 PA Universite De Montreal, Can.
 SO PCT Int. Appl., 113 pp.
 CODEN: PIXXD2
 DT Patent
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| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------|---|--|----------|-----------------|----------|
| PI | WO 9834120 | A1 | 19980806 | WO 1998-CA68 | 19980202 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
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| | AU 9858505 | A1 | 19980825 | AU 1998-58505 | 19980202 |
| | EP 966685 | A1 | 19991229 | EP 1998-901905 | 19980202 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| | JP 2002508832 | T2 | 20020319 | JP 1998-532410 | 19980202 |
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 AN 1997:400690 CAPLUS
 DN 127:133022
 TI A protein complementation assay for detection of protein-protein interactions in vivo
 AU Pelletier, Joelle N.; Michnick, Stephen W.
 CS Departement de biochimie, Universite de Montreal, Montreal, QC, H3T 1J4, Can.
 SO Protein Engineering (1997), 10(Suppl.), 89
 CODEN: PRENE9; ISSN: 0269-2139
 PB Oxford University Press
 DT Journal
 LA English